

ABSTRACT

The invention is directed to a nanocomposite material and products produced from the nanocomposite material. This invention is also directed to a process for preparing a polymer-clay nanocomposite comprising the steps of (i) forming a concentrate comprising a layered clay material with a matrix polymer-compatible functionalized oligomer or polymer, and (ii) melt compounding the concentrate with a melt-processible matrix polymer to produce a polymer-clay nanocomposite.